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ASI

announces three new systems
in the **ADVANCE** Series

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from ASI's continuing program of new products

Three new systems in the performance-rated ADVANCE Series—each with its unique problem-solving capabilities; each with the outstanding features of all ADVANCE Series compatible computers. With the ADVANCE 6050, 6070 and 6080 Computer Systems, ASI continues to give its customers the most computing power per dollar of any systems in their class. These high-performance additions to the ADVANCE Series totally cover the scientific market in the \$2,150 to \$12,500/month range.

The ADVANCE 6050 offers the general purpose user high-speed arithmetic with double precision floating point hardware;

The ADVANCE 6070, designed for the systems area, has an Accelerated-Processing Unit which permits simultaneous operations independent of the main processor;

The ADVANCE 6080 fulfills the requirements of the high-performance user, offering such features as memory protect and dynamic hardware relocation to permit time-shared operations and multi-programming capability, and the use of multiple remote stations. All three employ the most recent developments in microelectronics with integrated monolithic circuitry.

Check this partial list of other features—select the system that exactly fits your requirements—then contact ASI!

ADVANCE

6050

The ADVANCE 6050 has been designed primarily for the general purpose field. Double precision floating point hardware is standard (39 bit mantissa, 9 bit exponent). Floating point add time is 9.5 microseconds, floating point multiply, 17.1 microseconds. Direct input/output access to the accumulator register or to memory, specified by program, is also featured.

ADVANCE

6070

Designed for use in the fast growing systems area, the 6070 provides a high performance unit with optional floating point hardware plus multi-processing capabilities. Floating point add time is 9.5 microseconds, floating point multiply 17.1 microseconds; Sine, 42 microseconds and Arctan, 70 microseconds. Available with the 6070 is an Accelerated Processing Unit which has a cycle time of 5.7 microseconds for a repeated multiply plus accumulative double precision add. Simultaneous computation is also made available through the Accelerated-Processing Unit. Several of these units may be added to further extend the capacity of the 6070.

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ADVANCE 6080

Fulfilling the requirements of the high performance general purpose user, the ADVANCE 6080 offers such features as memory protect hardware (program specified) and hardware program relocation. These features allow time-shared operations and multi-programming capabilities, and protection of key programs or data in real-time applications. An executive programming system for time sharing applications is available from ASI. Double precision floating point hardware can be optionally selected.

Three hardware index registers and indirect addressing further expand the large machine capabilities of all these ADVANCE Series systems. In addition to the distinctive characteristics already mentioned, these systems have the unique features of all ADVANCE Series computers. These include a very flexible high speed instruction repertoire, memory word size of 24 bits plus parity, a memory cycle time of 1.9 microseconds and up to 32,768 words of memory, all directly addressable. A complete line of proven peripheral equipment is available for any ADVANCE Series system; special interface hardware will be designed to meet customer needs.

One of the most flexible software packages in the industry is delivered with each system. Designed to make maximum use of the sophisticated hardware, it includes:

A one-pass Extended FORTRAN II compiler with many FORTRAN IV characteristics;

ASIST, a one-pass symbolic language assembler which enables the programmer to quickly and easily program the computer without a lengthy training period;

MONITOR, the ADVANCE Series operating system to facilitate job processing and debugging;

A centralized input/output control program for automatic buffering and error checking of I/O operations and character conversion between peripheral equipment and internal codes.

Peripheral equipments used by programs written in FORTRAN or ASIST can be dynamically reassigned at execution time without any change in the programs. All programs are completely upward compatible in the ADVANCE Series.

You will receive additional information on the ADVANCE 6050, 6070 or 6080 by filling out the attached postal card or by contacting the local sales office listed on the back of this page.

Please send following information

<input type="checkbox"/>	6050 ADVANCE General Description
<input type="checkbox"/>	6070 ADVANCE General Description
<input type="checkbox"/>	6080 ADVANCE General Description

NAME _____

TITLE _____

COMPANY _____

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CITY _____ STATE _____ ZIP _____

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If a low cost system better fits your requirements, consider the 6020 and 6040

If your present requirements do not demand the extended capability of the ADVANCE 6050, 6070 or 6080, you may wish to consider the already announced ADVANCE 6020 or 6040. Introduced in October '64, the 6020 and 6040 are the general purpose members of the ADVANCE Series for systems in the \$2,150 to \$3,000 per month range. Field upgrading to higher performance capability can be accomplished in steps commensurate with need, without loss of machine time and with limited expense. Programs are completely upward compatible throughout the ADVANCE Series, thus no expensive reprogramming is necessary.

ASI

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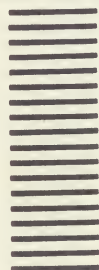
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On The ADVANCE Series From ASI
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